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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/805,144 03/14/2001		03/14/2001	Ryoutarou Matsuda	P 0275317 TLG200107	1956
909	7590	03/01/2004		EXAMINER	
PILLSBUI	RY WINT	HROP, LLP	PATEL, ASHOK		
P.O. BOX 1	0500				
MCLEAN,	VA 2210)2	ART UNIT	PAPER NUMBER	
				2870	

DATE MAILED: 03/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	o. Applicant(s)					
	Office Action Summary	09/805,144 Examiner	MATSUDA E	TAL.				
	•	Ashok Patel	2879					
	The MAILING DATE of this communication			ce address				
Period fo								
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicati e period for reply specified above is less than thirty (30) days prefixed for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, hion. s, a reply within the statutory period will apply and will express the application.	owever, may a reply be timely filed minimum of thirty (30) days will be considered ire SIX (6) MONTHS from the mailing date of n to become ABANDONED (35 U.S.C. § 13	this communication.				
Status								
1)	Responsive to communication(s) filed on	12/12/04.						
2a)□		This action is non-	inal.					
3)	Since this application is in condition for a			o the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.							
,	4a) Of the above claim(s) <u>5-14</u> is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
	Claim(s) <u>1-4</u> is/are rejected.							
7)								
8)[Claim(s) are subject to restriction a	and/or election requ	rement.					
Applicat	ion Papers							
9)[The specification is objected to by the Exa	aminer.						
	0)⊠ The drawing(s) filed on <u>31 July 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection		•					
	Replacement drawing sheet(s) including the o	correction is required if	the drawing(s) is objected to. See	37 CFR 1.121(d).				
11)	The oath or declaration is objected to by t	he Examiner. Note t	ne attached Office Action or form	m PTO-152.				
Priority (under 35 U.S.C. § 119		·					
12) 又	Acknowledgment is made of a claim for fo	oreian priority under	35 ILS C. & 119(a)-(d) or (f)					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
,	1. ☐ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority docu			<u>.</u> .				
	3. Copies of the certified copies of the							
	application from the International B	Bureau (PCT Rule 17	.2(a)).					
* (See the attached detailed Office action for		copies not received.					
Attachmen	rt(s)							
	ce of References Cited (PTO-892)	4) [Interview Summary (PTO-413)					
	ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/5		Paper No(s)/Mail Date Notice of Informal Patent Application	ı (PTO-152)				
	r No(s)/Mail Date		Other:	,				

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1. Applicant's election of Group I, clams 1-4, Paper No. 1203, is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claims 5-14 are withdrawn from consideration.

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2. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "transmitting ultraviolet rays of long wavelength and blocking ultraviolet rays of short wavelength" renders the claim indefinite and/or vague as to what the means by "long" and "short" wavelengths.

Claims 2-4 are necessarily rejected since they depend upon claim 1.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at

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the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Berthold (U.S.P. 3,624,444).

Berthold discloses applicant's claimed ultraviolet lamp including a discharge vessel (1); a pair of electrodes (2, 3) and an optical filter made of zirconium metal oxide as claimed by applicant.

Berthold differs from applicant's claimed ultraviolet lamp in that Berthold's lamp does not include a metal oxide filter formed on outer surface of the discharge vessel.

However providing the metal oxide coating inside or outside would have been obvious to one of ordinary skill in the art since it could be provided at any suitable location for filtering the ultraviolet rays of transmitted by the gas fill.

Transmitting and block different wavelengths of the ultraviolet light, as claimed by applicant, is physical property of the metal oxide coating. Also having energy bad gap of 4.5 to

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6.7 by the metal oxide coating, as recited in applicant's claim 3, is physical property.

Consequently, it would have been obvious to one of ordinary skill in the art to provide Berthold's lamp including the metal oxide coating suitably on the outer surface of the vessel for transmitting the ultraviolet rays of longer wavelength and blocking the ultraviolet rays of short wavelength.

As to claim 2, The lamp vessel of Berthold further does not include titanium oxide and cerium oxide.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kaliszewski et al, Verhaar et al and Roozekrans et al each are cited for showing a general structure of an UV lamp including a zirconium oxide coating.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok Patel whose telephone number is 571-272-2456. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the

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organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4900.

Ashok Patel
Primary Examiner
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